

# UTILITY IMPACT ANALYSIS

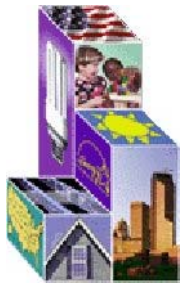
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U.S. DOE Workshop on Standards  
for Commercial Unitary Air Conditioners and  
Heat Pumps

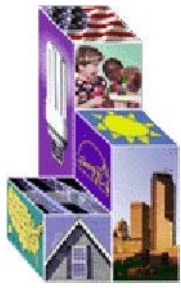
October 1, 2001



## Utility Impact Analysis: PURPOSE AND METHOD

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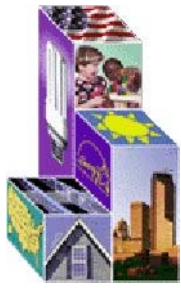
- PURPOSE
  - Estimate effects on electricity suppliers of reduced energy sales due to new energy efficiency standards
- METHOD uses NEMS-BRS
  - Integrated model of U.S. energy sector, including supply and demand
  - Publicly available model, with forecast through 2020
    - extrapolate beyond 2020
  - Current basis: EIA Annual Energy Outlook 2001
    - will update model when EIA does (usually annually)



## Utility Impact Analysis: INPUTS

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- Annual energy consumption and savings for commercial unitary air conditioners and heat pumps from National Energy Saving spreadsheet
- All other inputs from EIA



## Utility Impact Analysis: METHOD and OUTPUT

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- METHOD
  - NEMS-BRS balances all supply and demand given savings from new energy efficiency standard
- OUTPUT
  - Change in energy sales and price by fuel type (electricity, gas, oil) by region
  - Change in mix of electricity generation
  - Change in new capacity construction



Utility Impact Analysis:

## DOE Requests Input from Stakeholders

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- *Should we consider using alternative methods to NEMS for conducting the utility impacts analysis?*